

REPORT NO. 78-3-16

FOREST INSECT AND DISEASE MANAGEMENT UNIT
U.S. FOREST SERVICE
DORAVILLE, GEORGIA

REPORT OF AERIAL DETECTION SURVEY

LAND OWNERSHIP OR SURVEY AREA: DELTA NATIONAL FOREST

STATE: ~~MISSISSIPPI~~

AREA WITHIN SURVEY BOUNDARY: 118,200 ACRES

DATE: 5/25/78 AND 7/11/78

PERCENT COVERAGE: 50%

AIRCRAFT: CESSNA 206, CESSNA 182

CREW: B.I. HAMMOND, W.A. CAROTHERS, LARRY MOORE (DELTA NATIONAL FOREST), TERRENCE ROGERS

REPORT PREPARED BY: W.A. CAROTHERS

SURVEY OBJECTIVES: TO DETECT THE PRESENCE OF FOREST INSECTS OR DISEASES ADVERSELY AFFECTING THE AREAS WITHIN THE DELTA NATIONAL FOREST.

SURVEY RESULTS

AERIAL PHASE

1. DURING THE INITIAL SURVEY OF 5/25/78, A LARGE NUMBER OF LEAFLESS HARDWOODS SCATTERED THROUGHOUT THE DELTA NATIONAL FOREST WERE OBSERVED. THE LEAFLESS TREES APPEARED TO BE THE RESULT OF INSECT DEFOLIATION.
2. EXTENSIVE AREAS OF BEAVER DAMAGED TIMBER ALONG SEVERAL DRAINAGES WERE OBSERVED.
3. SEVERAL INDIVIDUAL RED-TOPPED HARDWOODS SUSPECTED OF BEING LIGHTNING STRIKES WERE OBSERVED.

GROUND PHASE

TERRENCE ROGERS (ENTOMOLOGIST, FIDM) OF THE ALEXANDRIA FIELD OFFICE WAS NOTIFIED OF THE RESULTS OF THE SURVEY CONDUCTED 5/25/78. A GROUND CHECK OF THE INDICATED AREAS WAS SCHEDULED BY ROGERS AND CONDUCTED BY LARRY MOORE (DELTA NATIONAL FOREST). THE GROUND CHECK INDICATED THAT TWO TREE

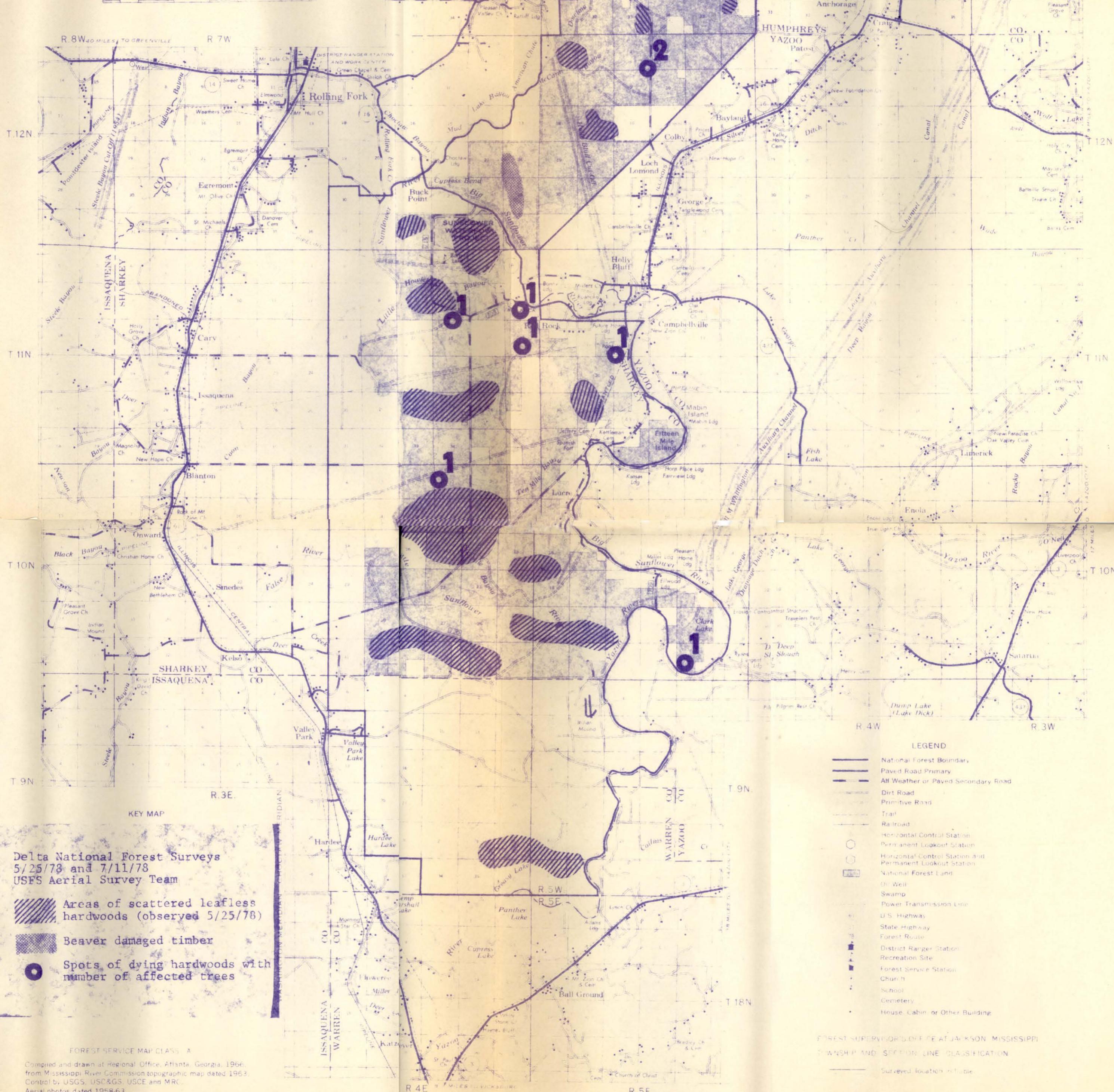
U.S. DEPARTMENT OF AGRICULTURE
FOREST SERVICE
EDWARD P. CLIFF, CHIEF

DELTA NATIONAL FOREST
MISSISSIPPI
WASHINGTON AND CHOCTAW MERIDIANS

1967

Scale by 1 mile

1 0 1 2 3 4 5 Miles



FOREST SERVICE MAP CLASS A

Compiled and drawn at Regional Office, Atlanta, Georgia, 1966.
from Mississippi River Commission topographic map dated 1963.
Control by USGS, USC&GS, USCE and MRC.
Aerial photos dated 1958-63.

SPECIES, BITTER PECAN (*Carya aquatica* (MICHX. F.) NUTT.) AND OVERCUP OAK (*Quercus lyrata* WALT.), COMMONLY FOUND IN AREAS OF THE DELTA NATIONAL FOREST WERE EXTREMELY LATE IN LEAFING OUT THIS YEAR. THE 3-4 WEEK DELAY IN THE LEAF OUT OF THESE TWO TREE SPECIES WAS ATTRIBUTED TO COLD WINTER WEATHER AND HIGH WATER CONDITIONS IN THE SPRING. AN ADDITIONAL AERIAL SURVEY WAS CONDUCTED 7/11/78 BY ROGERS, MOORE AND CAROTHERS. ALL AREAS OF APPARENTLY DEFOLIATED TREES WERE FOLIATED DURING THE SECOND SURVEY. ONLY A FEW SINGLE RED HARDWOODS SUSPECTED OF BEING LIGHTNING STRIKES WERE OBSERVED.

CONCLUSIONS

THE LEAFLESS TREES SEEN DURING THE INITIAL AERIAL SURVEY WERE THE RESULT OF COLD WINTER WEATHER AND HIGH WATER RATHER THAN INSECT OR DISEASE ORGANISMS. NO PERMANENT DAMAGE HAS RESULTED FROM THESE CONDITIONS. OTHER THAN THE AREAS OF BEAVER DAMAGED TIMBER, NO APPRECIABLE AMOUNT OF DAMAGED TIMBER WAS OBSERVED. FIELD SURVEILLANCE BY DELTA NATIONAL FOREST PERSONNEL FOR FOREST INSECT AND DISEASE PROBLEMS SHOULD CONTINUE. FOR ANY ADDITIONAL INFORMATION OR ASSISTANCE CONTACT:

FOREST INSECT & DISEASE MANAGEMENT UNIT, S&PF
USFS - SOUTHEASTERN AREA

NORTHGATE OFFICE PARK
3620 INTERSTATE 85, N.E.
DORAVILLE, GA 30340
TELEPHONE: 404-221-4796

OR 2500 SHREVEPORT HIGHWAY
PINEVILLE, LA 71360
TELEPHONE: 318-445-6511